DRAFT (PN 61.2115) :X6903 ORR/GG/F 21 Morch 1963

25X1A

PASSERN TIBET

I. Climate

The climate of eastern Tibet, particular temperatures, varies according to elevation and the type of terrain. There is a difference of about 5,000 feet between some of the lower, a jor river valleys at 9,000 to 10,000 feet, where important agricultural settlements are located, and the high, 13,000 to 15,000 foot grasslands inhabited to the monds. In theory, a difference of 5,000 feet in elevation should mean a difference of about 15°F in average temperatures; these differences, however, the accentuated by exposure to the wind or, conversely, made less severe through protection from winds afforded by deep canyons and forested areas.

both Chande and Batang, as shown in the fell wing tables. Those for Chando are from official Chinese Communist a tistics and, probably, are more accurate than these from Batang, which are the abords obtained by the observations made by personnel of a mission station for the lower river valleys at about 10,000 feet; for higher elevations interpolations are made, supplemented by readings when and observations made by travellers and explorers who travelled through this region.

C IIM

II. Temperatures

day and night but also great differences between sunshine and shade, wind and calm. The intensity of the sun rey's increases in the clear, dry, thin air at the high elevations in contern Tibet. At 15,000 feet the intensity of solar radiation is probably 25 percent or more great than received at lowland stations in comparable latitudes. The clear, dry air at high elevations, however, is incorpable of absorbing and retaining much energy and remains chilly although the sun in intensely strong. The climate of Tibet may be described as one of cool shade and hot sun. The emount of sunlight received in Tibet probably is greater than realized because of the comparatively southerly latitude. In late December, eastern Tibet received about 10 hours of sunlight compared to somewhat over 9 hours for Washington, D.C.

Differences between day and night temperature readings are great and the statistics for Chamlo show that during the depth of winter an average minimum of near 10°F can be expected and a daily high of about 50°F. These differences probably increase in the upper valleys and on the grasslands with nightly lows reaching near 0°F to occasionally -15°F; daily maxima probably are above freezing most of the time with readings upwards to 50°F. The cold is intensified by strong northerly or westerly winds that sweep across the open areas, particularly during winter and spring afternoons. On the other hand, the memorous protected valleys, many of them forested with conifers, provide a considerable degree of protection from the biting winds and low temperatures at elevations below 14,000 feet.

III. Precipitation

Based on the records for Chemdo, about 20 to 25 inches of precipitation (Washington -- 40 inches) are recorded a smally. There is a marked concentration during suggest; in the period from the days. Monthly smounts vary from 3 to 5 inches, roughly the same as in Washington during the suggest. In eastern Tibet, however, it rains more frequently than in Washington but the smounts per rain are considerably lower. Chando statistics show a maximum deally precipitation of only 1 to 1.5 inches. A record kept for some 50 days from mid-July through early September at Chando indicated that 23 days were without rain, 15 had light rain, and 10 had heavier rain. Averages for a 4-year period indicated that from May through September, rain falls on 16 to 23 days each month. Most of the rain is convectional in origin, since Chando records from 5 to 10 thunderstorms per month from May through September.

There are no statistics on the everage grount of snow in eastern Tibet, but winter emounts are believed to be comparatively low -- probably less than the 20 inches which is the average total for Washington. As much as 3 to 4 inches have been recorded in Chamdo in a month, with snow accumulations occurring on 3 to 5 days from December through March. Early winter and early spring are the months with the greatest expectation of snow. At higher elevations near Chamdo, snow occurs more often and the accumulations greater. Above 15,000 feet, flurries occur even during the summer months.

Approved For Release 2001/11/20 : CIA-RDP79T01019A000100030003-4

Some of the higher passes are some covered and difficult to cross during winter.

Generally, though, either alternate passes are available or, if pressed, a pass can be crossed in spite of the spect. Most travellers, however, agree that winter travel over the grasslands is not difficult with bright, clear, if cold, days being the rule.

25X1C

SELECTED CLIMATIC STATISTICS FOR BATANG AND CHANDO*

Mean Monthly Temperatures

	199	Apr	Jul	<u>Oct</u>
Batang	39	58	71	54
Checido	30	48	60	49

Mean Maximum Temperature

	<u>Jen</u>	AT	<u>Jul</u>	<u>Oct</u>
Batang	52	70	82	65
Chemic	49	63	75	66

Mean Minimum Temperature

	<u> Jen</u>	Apr	<u>Jul</u>	<u>Oct</u>
Batang	26	45	59	
Chemdo	11	3 3	49	34

Absolute Minimum Temperature

	Jan		Apr	Jul	· . '''	Oct
Batang	15	· • %	3)4	49		29
Cherido	0		20	33		20

Number of Days Temperature Below Freezing

	Jan	Ap		<u>əm</u>	<u> 0et</u>
Batang	29	1	•	0	0
Chando	31.		•	0	13

^{*} Elevation of Batang -- 9,000 feet. Elevation of Chando -- 10,600 feet Records for Chando are for 4 years; records for Batang vary from 2 to 6 years. All temperatures in degrees Fahrenheit.

Approved For Release 2001/11/20 : CIA-RDP79T01019A000100030003-4

福藤 激励 多级 医多种 医乳毒素

Approved Release 2001/11/20 : CIA-RDP79T01010A000100030003-4

Amount	of	Prec	ipit	ation

	Jan	Apr	May	June	Jul	Aug	Sep	Oct	Total
Chando	neg	0.9	3.1	3.5	5.3	3.8	3.1	1.2	22.0

Average Number of Days With Over 0.1 Inlineter of Precipitation

	Jan	Feb :	Mer	Apr	<u>Key</u>	Jun.	Jul	Aug	Sep	Oct	No.	Dec
Chando	3	3	б	9	16	19	23	20	19	10	1	2

Maximum Snow Accumulation

	<u>Jan</u>	Feb	Mar	APE	Nov	Dec
Chando	1	1.7	.8	3.2	•3	4.0

Average Number of Days of Snow Accumulation

	Nov :	Dec	<u>Jon</u>	Feb	Mer	Apr	Year
Chando	1	1,	3	3	5	2	15.5

Average Number of Clear Days

	Ja	n Feb	Mar	Apr	MA	Jun	Jul	Aug Sep	Oct Nov Dec
Batang		9 7	9	1,	9	б	5	5 3	18 14 16
Chamdo	1	1 5	2	2	5	5	3	3 5	12 13 17

Average Number of Cloudy Days

	Jan	<u>Feb</u>	Mar	Apr	May	Jun	Jul	Aug	Sep	<u>Oct</u>	Nov	Dec
Batang	4	9	5	3	3	3	5	8	7	6	5	2
Chemdo	4	5	12	14	11	15	17	12	11	6	3	4

COMPOSITION